

Appendix Responsibility Performance

Market Performance

Fortune Top 500 Building Material Enterprises in 2021

Ranking in 2021	Company Name	Revenues in 2020 (USD million)	Country
177	CNBM	57115.3	China
266	Saint-Gobain	43444.9	France
315	Anhui Conch Group	37929.8	China
441	CRH	27587.0	Ireland
492	Holcim	24653.8	Switzerland

Data Source: www.fortunechina.com

Production of Cement from 2010 to 2020

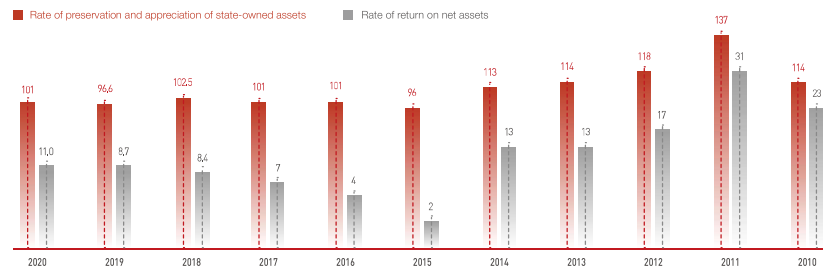
Unit: 100 million tons

Year	CNBM	China	Global
2020	3.5	23.8	37.0
2019	3.7	23.3	42.0
2018	3.4	22.1	39.5
2017	3.4	23.2	41.0
2016	3.2	24.0	42.0
2015	2.4	23.5	41.0
2014	2.5	24.8	41.8
2013	2.4	24.2	40.0
2012	2.7	21.8	38.0
2011	1.9	20.1	36.0
2010	1.7	18.8	33.1

Source: National Bureau of Statistics, United States Geological Survey

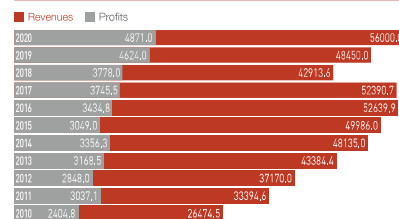
Rate of Preservation and Appreciation of State-owned Assets and Rate of Return on Net Assets from 2010 to 2020

Unit: %



Total Revenues and Profits of Enterprises above Scale in China Building Materials Industry from 2010 to 2020

Unit: RMB 100 million



Data Source: China Building Material Quantity Economic Supervision Society

Total Revenues and Profits from 2010 to 2020

Unit: RMB 100 million

Year	Revenues	Profits
2020	3941.0	306.1
2019	3981.0	235.2
2018	3480.0	206.6
2017	3021.2	151.1
2016	2612.3	75.8
2015	1992.5	38.4
2014	2504.3	130.1
2013	2522.6	115.1
2012	2174.3	111.6
2011	1940.9	158.5
2010	1353.6	75.6

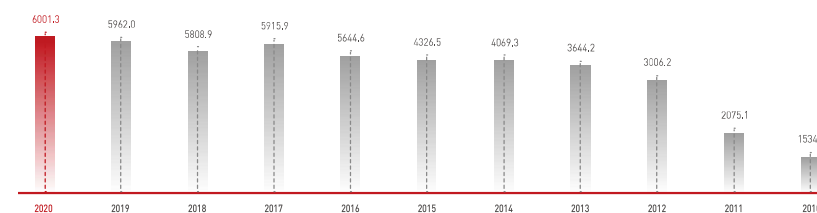
Performance of Listed Companies in 2020

Unit: RMB

Stock Name	Stock Exchange	Stock Code	Dividends per share	Earnings per share
CNBM	Hong Kong Exchanges and Clearing	3323.HK	0.4700	1.4880
BNBM	Shenzhen Stock Exchange	000786.SZ	0.5500	1.6930
China Jushi	Shanghai Stock Exchange	600176.SH	0.2240	0.6899
Sinoma International	Shanghai Stock Exchange	600970.SH	0.2300	0.6500
Tianshan Cement	Shenzhen Stock Exchange	000877.SZ	0.4800	1.4458
Ningxia Building Materials	Shanghai Stock Exchange	600449.SH	0.6700	2.0200
Qilianshan Cement	Shanghai Stock Exchange	600720.SH	0.6800	1.8500
Sinoma Tech	Shenzhen Stock Exchange	002080.SZ	0.4000	1.2228
Triumph Science & Technology	Shanghai Stock Exchange	600552.SH	0.0500	0.1581
Sinoma Energy Conservation	Shanghai Stock Exchange	603126.SH	0.8000	0.8000
Luoyang Glass	Shanghai Stock Exchange	600876.SH	0.0000	0.5930
Luoyang Glass Company Limited	Hong Kong Exchanges and Clearing	1108.HK	0.0000	0.5930
Ruitai Technology	Shenzhen Stock Exchange	002066.SZ	0.0000	0.1201
CTC	Shanghai Stock Exchange	603060.SH	0.2030	0.5364

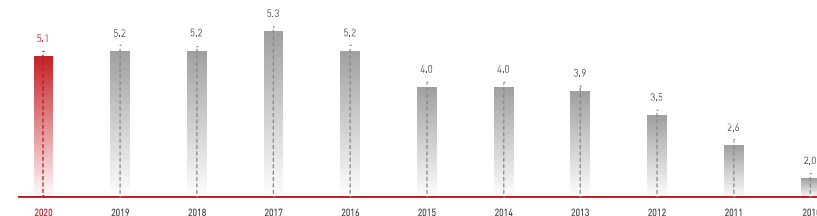
Total Assets from 2010 to 2020

Unit: RMB 100 million



Cement Capacity from 2010 to 2020

Unit: 100 million tons



Technological Innovation

Science and Technology Awards at or above the Provincial and Ministerial Level from 2010 to 2020 Unit: Item

Year	Science and Technology Awards at or above the Provincial and Ministerial Level	National Science and Technology Progress Awards
2020	109	0
2019	166	3
2018	231	1
2017	197	2
2016	173	2
2015	123	0
2014	117	1
2013	145	1
2012	152	0
2011	132	2
2010	63	0

Annual Patent Application and Authorization from 2010 to 2020 Unit: Item

Year	New patent application	Invention patents	Patents newly authorized	Invention patents
2020	4436	1821	2576	532
2019	3308	1638	1804	478
2018	2287	1056	1571	385
2017	2144	1039	1524	428
2016	2156	880	1793	455
2015	1568	566	1492	193
2014	1571	531	1381	106
2013	1262	373	848	128
2012	766	228	729	143
2011	630	170	487	80
2010	514	173	420	54

Expenditure on Scientific Research Activities from 2010 to 2020 Unit: RMB 100 million

Year	Expenditure on research and test development
2020	119.1
2019	95.9
2018	81.9
2017	59.3
2016	51.2
2015	40.9
2014	41.6
2013	36.2
2012	33.4
2011	31.6
2010	20.7

Standards – CNBM Presiding over and Participating in Compilation or Revision from 2010 to 2020 Unit: Item

Year	Total Standards	International	National	Industrial
2020	74	3	39	32
2019	88	0	52	36
2018	167	4	90	73
2017	122	4	90	28
2016	91	2	57	32
2015	62	2	36	24
2014	104	3	35	66
2013	59	1	8	50
2012	22	1	5	16
2011	28	1	15	12
2010	79	0	30	49

Accumulative Patents from 2010 to 2020 Unit: Item

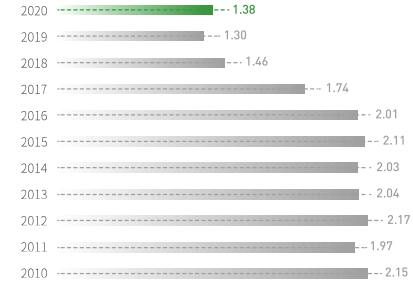
Year	Accumulative patents	Invention patents
2020	14463	3816
2019	12124	3164
2018	10967	2765
2017	10024	2403
2016	8408	1913
2015	5663	900
2014	4255	687
2013	3231	589
2012	2549	448
2011	1606	288
2010	1232	227

Revenues from Technological Innovation from 2010 to 2020 Unit: RMB 100 million

Year	Revenues from technological innovation	New product sales revenues
2020	35.2	754.7
2019	28.4	577.6
2018	30.1	555.9
2017	16.6	468.5
2016	15.7	339.0
2015	11.5	256.5
2014	8.8	289.9
2013	10.3	259.4
2012	9.4	248.4
2011	11.0	240.3
2010	14.1	158.4

Energy Conservation and Environmental Protection

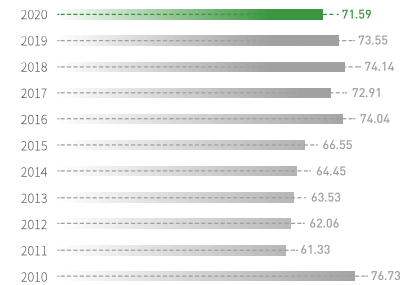
Comprehensive Energy Consumption per RMB 10,000 Output Value from 2010 to 2020 Unit: ton of standard coal/ RMB 10,000



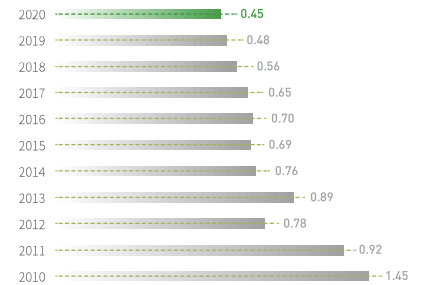
SO₂ and COD Emissions per RMB 10,000 Output Value from 2010 to 2020 Unit: kg/RMB 10,000

Year	SO ₂ emissions per RMB 10,000 output value	COD emissions per RMB 10,000 output value
2020	0.42	0.04
2019	0.62	0.03
2018	1.09	0.03
2017	1.07	0.03
2016	1.60	0.05
2015	1.46	0.06
2014	1.36	0.06
2013	1.39	0.07
2012	1.45	0.07
2011	1.60	0.12
2010	2.33	0.12

Comprehensive Energy Consumption per Ton of Cement from 2010 to 2020 Unit: kg of standard coal/ton



Nitrogen Oxide Emissions per Ton of Cement Clinker from 2010 to 2020 Unit: kg/ton



Performance of Solid Waste Disposal and Utilization from 2010 to 2020

Year	Solid waste consumption (10,000 tons)	Disposal rate of self-produced solid waste (%)
2020	17880	91.7
2019	14967	99.9
2018	9900	92.8
2017	15615	99.0
2016	14909	88.6
2015	7545	98.5
2014	7882	98.0
2013	6191	99.2
2012	9700	100
2011	6500	100
2010	2500	—

Performance in Utilization of Water Resources from 2011 to 2020

Year	Fresh water consumption per RMB 10,000 output value (ton/RMB 10,000)	Fresh water consumption per ton of cement clinker (ton/ton of cement clinker)	Utilization rate of circulating water (%)
2020	5.3	0.49	95.1
2019	3.6	0.34	90.0
2018	7.9	0.45	90.8
2017	7.1	0.51	96.2
2016	6.2	0.38	93.7
2015	7.2	0.46	93.5
2014	6.2	0.41	90.3
2013	8.0	0.41	96.4
2012	5.0	0.33	94.7
2011	5.5	0.37	—

Employee Care

Employee Profile from 2010 to 2020

Unit: Person

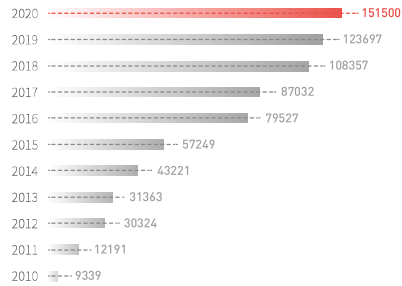
Year	Total number	Foreign, Hong Kong, Macao and Taiwan employees	Ethnic minority employees	Disabled employees	Proportion of female employees in management
2020	202844	1036	5725	1731	16.9%
2019	204763	483	5808	1729	16.2%
2018	205680	1059	5167	1697	18.7%
2017	221421	750	5985	1732	18.4%
2016	234511	1126	5964	1875	18.3%
2015	176610	841	3521	1449	17.2%
2014	176854	852	3120	2263	18.4%
2013	179421	1234	3031	1685	18.1%
2012	165652	1190	2706	1620	13.5%
2011	126385	594	3516	1023	11.6%
2010	112676	397	1566	599	24.0%

Progress of Enterprise Annuity from 2010 to 2020

Year	Number of member enterprises participating in enterprise annuity (entity)	Number of employees participating in enterprise annuity (person)
2020	531	95554
2019	207	56174
2018	100	35644
2017	74	24093
2016	71	22871
2015	68	22165
2014	67	21750
2013	67	21131
2012	66	20392
2011	53	13368
2010	38	12811

Occupational Health and Safety Investment from 2010 to 2020

Unit: RMB 10,000



Employment Contract and Social Security Coverage and Labor Union Membership from 2010 to 2020

Unit: %

Year	Coverage of employment contracts	Coverage of social security	Proportion of employees with labor union membership
2020	100	90	78
2019	100	92	78
2018	100	90	78
2017	100	98	92
2016	100	98	91
2015	100	98	91
2014	93	88	70
2013	96	92	75
2012	96	92	80
2011	94	91	73
2010	88	87	—

Employee Training Performance from 2011 to 2020

Year	Training programs organized and participated (session)	Employees' training participation (10,000 hours)	Employees' on-the-job academic degrees obtained (case)
2020	84771	215	2628
2019	107787	137	1679
2018	75187	485	1424
2017	52676	112	2251
2016	47554	331	3028
2015	32672	133	2882
2014	43352	91	3520
2013	37491	164	2387
2012	21028	126	1138
2011	11975	108	1580

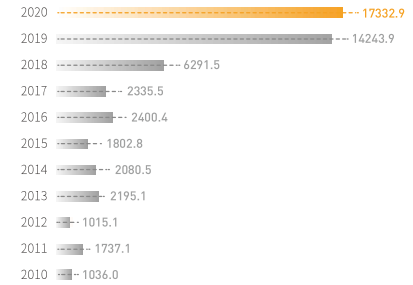
Workplace Safety Performance from 2010 to 2020

Year	DIFR recorded per 1,000 employees (%)	New case of occupational diseases (case)
2020	0.2	0
2019	0.4	1
2018	0.5	1
2017	0.5	2
2016	0.5	0
2015	0.9	3
2014	1.3	2
2013	1.6	1
2012	2.3	3
2011	1.4	19
2010	1.5	24

Corporate Citizenship

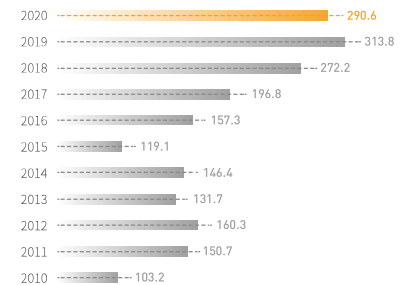
Social Public Welfare Expenditure from 2010 to 2020

Unit: RMB 10,000



Payment of Taxes from 2010 to 2020

Unit: RMB 100 million

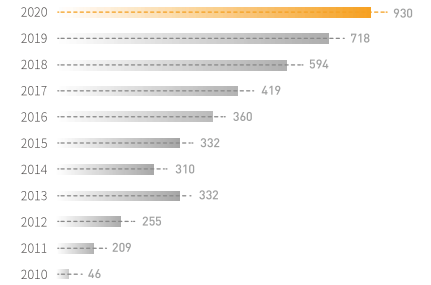


Assistance of Students from 2011 to 2020

Year	Special scholarships established (item)	Total scholarship provided (RMB 10,000)	Number of students awarded or subsidized (person)	Internship bases established (base)	Undergraduate Posts provided (person day)
2020	20	99	298	128	53145
2019	22	113	284	132	52689
2018	18	73	188	118	45464
2017	14	72	155	163	31519
2016	8	37	266	134	34030
2015	8	36	159	47	26586
2014	31	53	227	97	28619
2013	18	112	506	119	36530
2012	20	136	466	98	17815
2011	27	—	727	—	—

Number of Supported Social Welfare Projects from 2010 to 2020

Unit: Item



Performance in Employment Assurance from 2011 to 2020




















Unit: Person










Year	Number of new employees	Current year's graduates	Military personnel transferred to civil work
2020	22032	3667	24
2019	27763	3890	22
2018	26553	3626	141
2017	29612	4727	139
2016	22342	3129	23
2015	16929	2473	10
2014	23617	3848	46
2013	16081	4383	158
2012	15901	3743	521
2011	21182	4276	241

Volunteer Activity Organization from 2011 to 2020

Year	Volunteer groups established (group)	Input in volunteer support (RMB 10,000)	Number of staff volunteers (person)	Volunteer service provided (hour)
2020	192	190	10121	49220
2019	213	2219	10343	40192
2018	189	126	6853	44445
2017	335	363	5334	25164
2016	112	344	5646	28157
2015	56	191	2187	14840
2014	65	145	3400	9418
2013	109	145	4864	10681
2012	67	91	3337	39778
2011	—	—	—	10618

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